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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/620,209	07/14/2003	George C. Schloemer	4951-30	8746	
7590 03/12/2004			EXAMINER		
Kent H. Cheng, Esq.			HUANG, EVELYN MEI		
Cohen, Pontani, Lieberman & Pavane Suite 1210			ART UNIT	PAPER NUMBER	
551 Fifth Avenue			1625		
New York, NY 10176			DATE MAILED: 02/12/2004		

DATE MAILED: 03/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Ap	plication No.	Applicant(s)				
		10/620,209 SCHLOEMER, GEORGE		E C.			
Office Action Summ	071	aminer	Art Unit				
		elyn Huang	1625				
The MAILING DATE of this c	t t						
Period for Reply		9	•				
A SHORTENED STATUTORY PER THE MAILING DATE OF THIS COI - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date of If the period for reply specified above is less the If NO period for reply is specified above, the mailing to reply within the set or extended perion Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1	MMUNICATION. provisions of 37 CFR 1.136(a). this communication. an thirty (30) days, a reply withir aximum statutory period will app d for reply will, by statute, cause e months after the mailing date	In no event, however, may a reply be the statutory minimum of thirty (30) bly and will expire SIX (6) MONTHS to the application to become ABANDO	e timely filed days will be considered timely. from the mailing date of this communi DNED (35 U.S.C. § 133).	ication.			
Status							
1) Responsive to communication	n(s) filed on .						
2a) ☐ This action is FINAL .	2b)⊠ This acti	on is non-final.					
3) Since this application is in co							
closed in accordance with the	e practice under <i>Ex pa</i>	nre Quayle, 1935 C.D. 11	, 453 O.G. 213.				
Disposition of Claims							
4)⊠ Claim(s) <u>1-8</u> is/are pending in	n the application.		•				
4a) Of the above claim(s)		om consideration.					
5) Claim(s) is/are allowe	d.						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.							
	Claim(s) is/are objected to.						
8) Claim(s) are subject to	o restriction and/or ele	ction requirement.					
Application Papers							
9) The specification is objected	to by the Examiner.						
10)☐ The drawing(s) filed on	•	d or b) objected to by t	ne Examiner.				
Applicant may not request that a							
Replacement drawing sheet(s) i				121(d).			
11) The oath or declaration is obj							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of	a claim for foreign prio	rity under 35 H.S.C. & 11	9(a)-(d) or (f)				
a) All b) Some * c) No. 1. Certified copies of the 2. Certified copies of the	ne of: priority documents ha priority documents ha copies of the priority of ternational Bureau (Po	ve been received. ve been received in Appli locuments have been rec CT Rule 17.2(a)).	cation No eived in this National Stag	j e			
Attachment(s) 1) Notice of References Cited (PTO-892)		4) 🔲 Interview Sumr	nary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing I		Paper No(s)/Ma	ail Date	`			
Information Disclosure Statement(s) (PTC Paper No(s)/Mail Date)-1449 or PTO/SB/08)	5) Notice of Inform 6) Other:	nal Patent Application (PTO-152)	,			

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DETAILED ACTION

1. Claims 1-8 are pending.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rossey (4794185, cited by applicant) in view of Sohda (5932592).

Rossey discloses the instant compound of formula I and the process of making thereof by reacting the hydroxy compound of formula IV (corresponding to the instant formula III) with a halogenating agent, such as thionyl chloride, in an organic solvent, such as a chlorinated solvent to form an intermediate leading to compound of formula I (column 1, lines 54-66; column 7, Reaction Scheme).

The instant process employ phosphorus tribromide instead of Rossey's thionyl chloride as the halogenating agent to form the corresponding intermediate leading to the formation of the compound of formula I.

Phosphorus tribromide and thionyl chloride are well known in the art to be preferred halogenating agents for hydroxy, as specifically described by Sohda (column 16, lines 50-57).

At the time of the invention, the skilled artisan is deemed to be aware of all the alternative reactants for the reaction of interest and would be motivated to replace the thionyl chloride of Rossey with the alternative phosphorus tribromide as the halogenating agent as suggested by Sohda to arrive at the instant process with the reasonable expectation of having an additional process effective for the synthesis of the compound of formula I.

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4. Claims 4-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rossey (4794185, cited by applicant) in view of George (4808594) and/or Whitfield (GB 793807, cited by applicant) and/or Perez (J. Org. Chem. 1988, 53: 408-413)

Rossey discloses the instant compound of formula III and the process of making thereof. Rossey's process involves the reaction of the imidazopyridine of formula (II) with an acetamide compound of formula (III) (column 1, lines 54-64; column 7, Reaction Scheme).

The instant process uses a dialkylglyoxylamide (II) instead of Rossey's acetamide of formula (III) to react with the same imidazopyridine starting compound.

The reaction of dialkylglyoxylamide with a imidazopyridine compound for the introduction of the hydoxyacetamide chain onto the imidazopyridine has been described by George (column 2, lines 9-11; columns 6-7, Scheme 1 and Scheme 2; column 3, Example 3). The production of such glyoxyamide has been described by Whitfield (page 2, (III)) and by Perez (page 408, compound 3b).

At the time of the invention, the skilled artisan is deemed to be aware of all the alternative reactants for the reaction of interest and would be motivated to replace the acetamide of Rossey with the alternative glyoxylamide suggested by George, Whitfield and/or Perez to arrive at the instant process with the reasonable expectation of having an additional process effective for the synthesis of the compound of formula III.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 4 is an independent claim, but the structure of formula III is not described therein. It is recommended that the structure of formula III be included in the claim for clarification purposes.

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Conclusion

- 6. No claims are allowed.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Evelyn Huang whose telephone number is 571-272-0686. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alan Rotman can be reached on 571-272-0693. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Evelyn Huang

Primary Examiner

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